

Jet Propulsion Laboratory
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TO: Distribution

FROM: David Morris

SUBJECT: Minutes for the Joint Users Resource Allocation Planning Committee Meeting held June 19, 2008 JPL Building 126-Room 200 1PM.

**NEXT JURAP MEETING:
Thursday, July 17, 2008
JPL Bldg 126, Room 200, 1PM**

Attendees:

B. Arroyo	L. Fairley	C. Hernandez	E. Martinez	P. Tay
R. Best	J. Hall	J. Jai	D. Morris	K. Yetter
D. Dillard	P. Hames	A. Kniepkamp	C. Parker	

The Joint Users Resource Allocation Planning Committee meets monthly to review the status of Flight Projects, the requirements of other resource users, and to identify future requirements and outstanding conflicts. The previous JURAP meeting was held on May 15, 2008 at the Jet Propulsion Laboratory.

Introductory Remarks – D. Morris

Welcomed the attendees to the JURAP meeting. Briefly discussed the agenda

Notes:

- DSN Status
- DSS-34 is down, going to be down for a while (to week 43).
- Spain's Commercial Power Installation downtimes have been scheduled in July.
- Request expected for S-Band users at DSS-45 and 65 to use 200W transmitter for operation and validation.
- Power grid redistribution being done at SPC-40.

- Power work being performed at Goldstone, antenna will be down the entire period.
- DSS-66 is being retired as scheduled in Oct 2008.
- DSS-14 has grouting.
- Increase to preventative maintenance beginning in week 41 at DSS-43 for one day /week every third week, to avoid conflict with DSS-14. Preference is during the time DSS- 46 is having maintenance.
- Mission Status
- Mars Express wants more tracking time this year in September through November. Specifically, 4-6 hours per track in weeks 39 – 46, 70M downlink preferred and MSPA (downlink only) is acceptable.
- MESSENGER is trying to complete planning for their Mercury #2 flyby 06 October 2008. They wish to lock in their schedule through week 41 so that they may complete their sequence planning.
- Carlos Hernandez – (representing MARS missions) is requesting DSS-66 be kept operational approximately 4 more weeks or until DSS-34 returns to service. Closest approach for MSGR will be at MDSCC per Peter Tay. Dave Morris requested Peter Hames to provide uncommitted daytime support during this timeframe. An exchange of email detailing this request with a refusal response by P. Hames followed this meeting.
- Chandraayan-1 Launch support schedule is absent. A request was made to B. Arroyo to provide it.

Maintenance – Peter Hames

Peter covered two recent increases for preventative maintenance. He spoke to a weekly increase of transmitter maintenance (4 hours per antenna) and one workday of maintenance (8 hours) at DSS-43 every third week. He also answered other questions on this topic.

- Transmitter maintenance requested at each antenna, 4 hours for every antenna per week, Monday-Friday. Times are negotiable. This will start at Canberra and Madrid in November when their antennas return to service.
- Canberra has requested an additional day of maintenance at DSS-43 monthly. Tentatively, this will be scheduled every third week on weeks where DSS-14 does not have Bearing Maintenance and on Wednesday when DSS-46 has maintenance. This also will begin in 2008 after DSS-34 returns to service in late October.
- DSS- 14 needs all maintenance time available until DLM in October 2009.

Resource Analysis Team

Mid-Range Status – L. Fairley

- Week 36 - 37 have been released to DSN Scheduling
- Week 41 - 42 were released to the Remote Users
- Week 38 - 40 have remaining facility and equipment conflicts

Mid-Range scheduling process has scheduled 20 weeks ahead of real-time and there are currently 12 weeks of conflict-free schedules. Conflict resolution is required for the following 4 weeks week 39 through week 42

On-going special studies/activities:

- SOHO Bogart Mission supportability study was requested to forecast the DSN's ability to provide support to the proposed mission from January 1, 2010 to December 31, 2013.

Summary results: Supportability can be achieved using combinations of the 34M BWG1 subnet or DSS-27, 45, 65 antennas.

Antenna Downtime Status and Forecast:

The following downtimes for 2008.

SPC-60 is requesting additional time for Commercial Power Installation no earlier than July 8, 2008. They are requesting two three-day blocks or three two-day blocks on off shift hours. DOYs 190 -192 and 203 - 206 have been scheduled.

SPC-40 is requesting complex downtime for A Station Power Grid.

- Week 22 DOY 153 2200-0200 scheduled
- Week 35 DOY 238 2200-0600 scheduled
- Week 38 DOY 266 2200-0400 scheduled
- Week 40 DOY 273 2200-0400 proposed

DSS-14 Grouting for week 31 in 2008 for 5 days.

- Grouting has been placed in the schedule and all conflicts have been resolved.
- DSS-14 Grouting has been proposed for an additional 5-day period.
- Grouting was proposed due to the delay in downtime for DSS-43.

DSS-34 Ka-Band Phase 2 downtime beginning in week 29 has scheduled an additional 4 weeks to complete the task.

- The impacted projects have agreed to move to other antenna and will be negotiated in the conflict negotiation meetings.

DSS-55 downtime for Paint Repair beginning is scheduled for September, weeks 36 - 41.

DSS-54 downtime for ACQ Aid Installation is scheduled for October, weeks 42 and 43 of 2008.

- Due to Cassini critical support, the proposed downtime DOYs would be 287 – 290 and 295 – 298. The NOPE will schedule TERRA supports for testing.

Downtime request for 2008

The following proposals for 14-hour complex downtimes are requested by GDSCC.

- Corrective maintenance “G86/G81 Transfer Switch Electrical Maintenance” has been changed to NET September 2008 week 36.
- Preventative maintenance “G91 2400V Switchgear Electrical Maintenance” has been changed to NET September 2008 week 38.
- Preventative maintenance “Echo Tie-Line Electrical Maintenance” has been changed to NET October 2008 week 40.

- Preventative maintenance “Apollo Tie-Line Electrical Maintenance” has been changed to NET October 2008 week 43.
- Preventative maintenance “SPC-10 Electrical Maintenance” in November week 45.

Additional time is being requested

- Two 8-hour complex downtimes in December 2008 for cutover, final connection and testing of the new G86 Substation, Mars Site.
- Fourteen 4-hour periods between July 2009 and January 2010 for testing of G86 Substation, Mars Site.

New request from Peter Hames: DSS-15 elevation gearbox replacement, 5 days between now and the end of 2008.

The following proposals for antenna downtimes are requested.**MDSCC Annual Antenna Inspections including Annual Servo Testing at DSS-63, -65, -54 and -55 as follows:**

- Servo Testing for DSS-55 is scheduled for DOY 192/0600-1400 week 28
- Servo Testing for DSS-63 is scheduled for DOY 193/0600-1400 week 28
- Servo Testing for DSS-54 is scheduled for DOY 196/0600-1400 week 29
- Servo Testing for DSS-65 is scheduled for DOY 199/0600-1400 week 29
- Servo Testing for DSS-63 is scheduled for DOY 203/0600-1400 week 30

NOTE: The Servo Testing will need to be rescheduled for DSS-55 based on the SPC-60 Commercial Power Installation.

HEF Transmitter Manifold Installation at DSS-15, -45 and -65 between July 2008 and June 2009 not to be scheduled concurrently with DSS-15 being scheduled first. This is a 4-day downtime period.

- DSS-15 will be proposed for November 2008.
- DSS-45 & DSS-65 will be proposed for early 2009.

The following downtimes are for 2009 – 2010

DSS-43 downtime for Life Extension and Depot Level Maintenance has been moved to start January 5, 2009 and proposed to end April 12, 2009 weeks 2 – 15

DSS-63 downtime for Life Extension has been shortened to May 4, through August 2, 2009, weeks 19 - 31.

DSS-24 downtime for painting has been proposed for April – May of 2009, weeks 14 - 22.

- A study could be performed
- Could be impacted if Kepler launch slips.

DSS-34 downtime for Azimuth Track Replacement has been proposed for 2010, local summer.

- It is proposed to move to January 2010.

DSS-65 downtime for Life Extension Elevation has been proposed for weeks 31 - 41 in 2010.

As a result of the reduction of downtime for DSS-43 & DSS-63 in 2008 & 2009, it is requested to recover that time in 2010, local spring, summer or fall after DSS-14 RTS.

- DSS-43 is proposed for August 30 to November 29, 2010 weeks 35-48
- DSS-63 is proposed for February 28 to May 29, 2011 weeks 9 -21.

DSS-15 downtime for Pintle Bearing has been proposed for May 3, through June 27, 2010, weeks 18 - 25.

Additional Note: Peter Hames interjected that there is a possibility of advancing the Ka-phase 2 downtime at DSS-24 into late 2008 with completion in January 2009 from the planned summer 2009 period.

Closing statements: D. Morris